

# Safety Data Sheet



**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

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## **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** COROGARD 615 EP HARDENER

**Chemical Family:** Amine Solution

**Product Use:** Polymer Coating

**Manufacturer:** RCC Corrosion Control  
1450 Hoff Industrial Drive  
O'Fallon, MO 63366  
Phone: 636-697-4659

**24-Hour Emergency Phone Number:** North America: 800-424-9300 (CHEMTREC)  
International: 703-527-3887 (CHEMTREC) Collect Calls Accepted

## **2. HAZARD IDENTIFICATION**

### **GHS Classification**

#### **Health Hazards**

Acute Toxicity, Oral, Category 4  
Acute Toxicity, Inhalation, Category 3  
Skin Corrosion, Category 1B  
Eye Damage, Category 1  
Respiratory Sensitization, Category 1B  
Skin Sensitization, Category 1B  
Carcinogenicity, Category 1B  
Reproductive Toxicity, Category 2  
Specific Target Organ Systemic Toxicity, Single Exposure, Category 3, Central Nervous System, Respiratory Tract [Inhalation, Skin absorption, Ingestion]  
Specific Target Organ Systemic Toxicity, Repeated Exposure, Category 2, Central Nervous System, Liver, Respiratory Tract, Kidneys [Inhalation, Skin absorption, Ingestion]

#### **Physical Hazards**

Corrosive to Metals, Category 1  
Flammable Liquid, Category 2

#### **Environmental Hazards**

Chronic Aquatic Toxicity, Category 3

# Safety Data Sheet

**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

---

## GHS-Labeling

### Pictograms:



**Signal Word: Danger!**

### Hazard Statements

H225: Highly flammable liquid and vapor  
H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage  
H317: May cause an allergic skin reaction  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335: May cause respiratory irritation  
H336: May cause drowsiness or dizziness  
H350: May cause cancer  
H361: Suspected of damaging fertility or the unborn child  
H373: May cause damage to organs prolonged or repeated exposure  
H412: Harmful to aquatic life with long lasting effects

### Precautionary Statements

#### Prevention:

P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P233: Keep container tightly closed.  
P235: Keep cool.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting/equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P260: Do not breathe vapors.  
P264: Wash skin and exposed areas thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P281: Use personal protective equipment as required.

# Safety Data Sheet



**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

---

## Response:

P301 + P330 + P331 + P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

P303 + P361 + P353: IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P341: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314: Get medical advice/attention if you feel unwell.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use dry chemical, carbon dioxide or foam for extinction.

P390: Absorb spillage to prevent material damage.

## Storage:

P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405: Store locked up

## Disposal:

P501: Dispose of contents/container in accordance with local, regional, and federal regulations

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### Chemical characterization

Component	CAS #	% By Wt.
Paratertiarybutylphenol	98-54-4	< 10
Benzene-1,3-dimethanamine (MXDA)	1477-55-0	< 10
Methyl Isobutyl Ketone	108-10-1	10 - 15
Talc (Hydrous Magnesium Silicate)	14807-96-6	15 - 20
Crystalline Silica, quartz	14808-60-7	5 - 10

## 4. FIRST AID MEASURES:

### Inhalation

**Symptoms & Effects:** Nose, throat, and lung irritation, headache, nausea, dizziness, confusion, respiratory sensitization or asthma symptoms

**Measures:** Immediately move outdoors or to fresh air. If breathing is difficult administer oxygen. Seek immediate medical attention and keep individual warm and quiet.

### Skin Contact

# Safety Data Sheet



**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

---

**Symptoms & Effects:** Skin irritation, redness, burning sensation, drying, cracking, and other skin damage.  
**Measures:** Immediately remove contaminated clothing. Flush exposed area with large amounts of water. Seek immediate medical attention. Wash contaminated clothing before reuse.

## Eye Contact

**Symptoms & Effects:** Eye irritation, stinging sensation, tearing, redness, and swelling of the eyes.  
**Measures:** Remove contact lenses and immediately flush eyes gently with plenty of water for at least 15 minutes. Hold eyelids open and wash thoroughly. Seek immediate medical attention.

## Ingestion

**Symptoms & Effects:** Mouth and throat burns, headache, nausea, vomiting, abdominal pain, dizziness, confusion, danger of perforation of the esophagus and stomach  
**Measures:** Seek immediate medical attention. Do NOT induce vomiting. If the victim is drowsy or unconscious, do not give anything by mouth. Place individual on their left side and place their head down. Do not leave victim unattended..

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Alcohol-resistant foam, Carbon Dioxide, Dry chemical

**Unsuitable Extinguishing Media:** Water stream

**Hazardous Combustion Products:** Ammonia, Nitric acid, Nitrogen oxides, Aldehydes, Carbon monoxide, Carbon dioxide

**Protective Equipment for Fire-Fighters:** Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**Precautions for Fire-Fighters:** Material is volatile and readily gives off vapors which may travel along the ground. Direct water streams may be ineffective and may further spread fire. Burning product may generate ammonia gas, toxic nitrogen oxide gases, as well as carbon monoxide. Downwind personnel must be evacuated. Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 6. ACCIDENTAL RELEASE MEASURES:

**Protective Equipment:** Recommended to wear chemical splash goggles & resistant gloves, such as polyvinyl alcohol-based gloves, and discard of gloves that show tears, pinholes, or signs of wear. Wear proper garments to prevent skin exposure, such as long-sleeves and pants.

**Personal Precautions:** Persons not wearing proper PPE should be excluded from the area of contamination until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources and pay attention to the spreading of gases, especially at ground level.

# Safety Data Sheet



**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

---

**Environmental Precautions:** Do not allow discharge into drains, surface waters, or sanitary sewer system. Prevent spreading over a wide area by containment or oil barriers. Local authorities should be advised if significant spillages cannot be contained or if material discharges into drains or ground water.

**Methods & Materials for Clean-Up:** Contained spilled material with inert, non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth, vermiculite). Transfer to a suitable container for disposal according to proper federal, state, and local regulations.

## 7. HANDLING AND STORAGE

**Handling:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, or solid), all hazard precautions given in this SDS must be observed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear proper PPE when handling this product including protective gloves, chemical splash goggles, and impervious clothing. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

**Storage:** Store in a cool, dry, ventilated area, away from heat and ignition sources as well as from incompatible materials (see below). Keep container tightly closed. Keep away from food, drink, and animal foodstuffs.

**Incompatible Materials:** Acids, Peroxides, Amines, Bases, Reducing agents, Oxidizing agents, Reactive metals, Sodium hypochlorite

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

### Exposure Limits:

<b>Benzene-1,3-dimethaneamine, (MXDA)</b>	<b>CAS # 1477-55-0</b>	
ACGIH	Ceiling Value (C)	0.1 mg/m <sup>3</sup>
NIOSH	Ceiling Value (C)	0.1 mg/m <sup>3</sup>
<b>Methyl Isobutyl Ketone</b>	<b>CAS # 108-10-1</b>	
OSHA	Permissible Exposure Limit (PEL)	100 ppm
ACGIH	Threshold Limiting Value (TLV)(STEL)	20ppm/75 ppm
NIOSH	Recommended exposure limit (REL)(STEL)	50ppm/75 ppm
<b>Crystalline Silica, quartz</b>	<b>CAS # 14808-60-7</b>	
OSHA	Permissible Exposure Limit (PEL)	0.05 mg/m <sup>3</sup>
ACGIH	Threshold Limiting Value (TLV)	0.025 mg/m <sup>3</sup>

# Safety Data Sheet

**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

---

NIOSH Recommended Exposure Limit (REL) 0.05 mg/m<sup>3</sup>

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures below permissible exposure limits. Provide readily accessible eye wash stations and safety showers.

**Occupational Exposure Controls:** Ensure adequate ventilation, especially in confined areas. Consider all potential hazards of this material, applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting PPE. Ensure that eyewash stations and safety showers are proximal to the work location. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Protective and Hygiene measures:** Do not inhale vapors. Wash hands before breaks and immediately after handling product. When using, do not eat, drink, or smoke. In case of clothes contamination, remove and wash contaminated clothing before re-use.

**Eye Protection:** Tight fitting, chemical splash goggles are recommended when there is potential for the exposure of the eyes to the liquid, vapor or mist. Have a suitable eye wash station or bottle nearby in case of splashing into the eyes.

**Hand Protection:** Recommended to wear resistant gloves, such as polyvinyl alcohol-based gloves and discard gloves that show tears, pinholes, or signs of wear.

**Skin Protection:** Recommended to wear long-sleeved clothing, pants and proper foot covering in order to prevent direct skin contact with the product. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

**Respiratory Protection:** A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Yellowish Liquid

**Odor:** Amine / Fishy

**Odor Threshold:** No data available

**pH:** > 8

**Melting/freezing point:** -No data available

**Boiling point:** > 212°F (>100°C)

**Boiling range:** No data available

# Safety Data Sheet

**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

---

**Flash point (Tag closed cup):** 73°F (22.7°C)  
**Evaporation rate:** 1.64 n-Butyl Acetate  
**Flammability: Lower Limit:** 8.0% (V) **Upper Limit:** 12.0% (V)  
**Vapor pressure:** 2.0653 kPa @ 77°F (25°C)  
**Vapor density:** 3.5 (Air = 1)  
**Relative density:** 1.32 g/cm<sup>3</sup> (11.00 lb/gal) @ 68°F (20°C)  
**Solubility in water:** Insoluble  
**Partition coefficient (n-octanol/water):** No data available  
**Auto-ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Viscosity (dynamic):** No data available

## 10. STABILITY AND REACTIVITY

**Reactivity:** No decomposition if stored and applied as directed.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Product will not undergo hazardous polymerization if product is not contacted with amines and if storage and use guidelines are followed.

**Conditions to Avoid:** Heat, Flames, Sparks, Short term exposure above 572°F (300°C), Prolonged exposure above 482°F (250°C)

**Incompatible Materials:** Acids, Peroxides, Amines, Bases, Reducing agents, Oxidizing agents, Reactive metals, Sodium hypochlorite

**Hazardous decomposition products:** Ammonia, Nitric acid, Nitrogen oxides, Aldehydes, Carbon monoxide, Carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

**Primary Routes of Exposure:** Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion

**Symptoms Related to Physical, Chemical and Toxicological Characteristics:** Nose, throat, and lung irritation, headache, nausea, dizziness, confusion, respiratory sensitization or asthma symptoms, skin irritation, redness, burning, cracking, drying of the skin, skin sensitization or allergic reactions, eye irritation, stinging, tearing, redness, swelling of the eyes, mouth and throat burns, headache, nausea, vomiting, abdominal pain, dizziness, confusion, danger of perforation of the esophagus and stomach

**Delayed and Immediate Effects & Chronic Effects from Exposure:** With repeated exposure, the substance may have effects on the central nervous system, respiratory system, kidneys, blood and liver. This

# Safety Data Sheet

**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

---

product may cause respiratory sensitization or may cause allergy or asthma symptoms as well as breathing difficulties if inhaled. This product may result in skin sensitization or allergic skin reactions. This product is suspected of causing mutagenic effects based solely on laboratory animal testing. This substance is suspected of harming fertility and the unborn child based on laboratory animal testing alone. This substance is a potential carcinogen to humans as outlined by OSHA, IARC, ACGIH and the NTP (see below).

## Measures of Toxicity:

Acute toxicities are calculated based on component toxicities

**Mixture:** Acute Oral Toxicity: LD50 Rat: 1,600 mg/kg  
Acute Dermal Toxicity: LD50 Rat: > 2,000 mg/kg  
Acute Inhalation Toxicity: No sufficient data available

## Methyl Isobutyl Ketone # 108-10-1

Acute Oral Toxicity LD50 Rat: 2,080 mg/kg  
Acute Dermal Toxicity LD50 Rabbit: >3.0 g/kg  
Acute Inhalation Toxicity LC50 Rat: > 2000 ppm (4 h)

## Carcinogen Claims: (quartz)

OSHA: **Yes; 1B**, International Agency for Research on Cancer (IARC): **Yes; 1 [Human Carcinogen]**  
ACGIH: **Yes; A2 [Suspected Human Carcinogen]**, National Toxicology Program (NTP) Report on Carcinogens: **Yes; 1 [Known]**

## 12. ECOLOGICAL INFORMATION

**Eco-toxicity:** This substance is expected to be toxic to aquatic organisms with long lasting effects. It is strongly advised that this substance does not enter the environment. Local authorities should be advised if significant spillages cannot be contained or if material discharges into drains or ground water.

**Persistence & Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** No data available

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations.  
Contaminated packaging should be emptied as far as possible before disposal.



# Safety Data Sheet



**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

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## 14. TRANSPORT INFORMATION

### DOT SHIPPING CLASSIFICATION:

UN NUMBER: UN2924

PROPER SHIPPING NAME: Flammable Liquid, Corrosive, N.O.S. (Methyl Isobutyl Ketone, Benzene-1,3-dimethaneamine (MXDA))

TRANSPORTATION HAZARD CLASS: 3

PACKING GROUP: II

HAZARD LABEL: 3 (8)

### IMDG (Marine) SHIPPING CLASSIFICATION:

IMDG CODE: 3

UN NUMBER: UN2924

MARINE POLLUTANT: No

EmS: F-E; S-C

IMDG PACKING GROUP: II

HAZARD LABEL: 3 (8)

#### Description of the goods

Flammable Liquid, Corrosive, N.O.S. (Methyl Isobutyl Ketone, Benzene-1,3-dimethaneamine (MXDA))

### IATA (Air) SHIPPING CLASSIFICATION:

ICAO/IATA-DGR: 3

UN NUMBER: UN2924

HAZARD LABEL: 3 (8)

PACKING GROUP: II

#### Description of the goods

Flammable Liquid, Corrosive, N.O.S. (Methyl Isobutyl Ketone, Benzene-1,3-dimethaneamine (MXDA))

## 15. REGULATORY INFORMATION

All components of this product conform to the following national inventory requirements. US TSCA, EU EINECS and Canada DSL

### SARA Title III

The following ingredients are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 37  
Methyl Isobutyl Ketone CAS# 108-10-1 (5,000 Lbs. RQ)

# Safety Data Sheet



**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

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## **OTHER FEDERAL REGULATIONS**

Components of this product are subject to RCRA Hazardous Waste requirements. Clean Air Act (CAA) Hazardous Air Pollutants requirements and OSHA Process Safety Management (PSM) high hazard requirements.

## **CANADIAN REGULATIONS**

Same as OSHA GHS Classification

## **STATE REGULATIONS**

California Proposition 65  
This product contains quartz, a chemical known to the state of California to cause cancer.

California Hazardous Substances List/Permissible Exposure List  
California Toxic air contaminants  
Connecticut Permissible Exposure Limits  
Delaware List of Chemicals and RQs  
Hawaii Permissible Exposure Limits  
Idaho Toxic Air Pollutants  
Illinois Toxic Air Contaminants List  
Louisiana Toxic Air Pollutants  
Maine Hazardous Air Pollutants  
Maryland Toxic Air Pollutants for Existing Sources  
Massachusetts Hazardous Substances List  
Michigan Permissible Exposure Limits  
Minnesota Hazardous Substances  
Minnesota Permissible Exposure Limits  
Nebraska Hazardous Air Pollutants  
New Jersey RTK Hazardous Substances List/TCPA Extremely Hazardous Substances List  
New York List of Hazardous Substances  
Ohio Toxic Air Contaminants  
Oklahoma Toxic Air Contaminants  
North Carolina TAP Emissions Rates Requiring a Permit  
Pennsylvania Hazardous Substances List  
Rhode Island Toxic Air Contaminants  
Tennessee Permissible Exposure Limits  
Vermont Hazardous Air Contaminants/Permissible Exposure Limits  
Washington Permissible Exposure Limits for Airborne Contaminants.  
West Virginia Toxic Air Pollutant List  
Wisconsin hazardous Air Contaminants

# Safety Data Sheet



**RCC Corrosion Control / SDS #: RCC-21615 / Revision Date: 05/23/2022**

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**Note:** Entries under Section 15 are not intended to be all inclusive of Federal and State laws and regulations. Please consult the appropriate agencies for further clarification of any requirements.

## 16. OTHER INFORMATION

**Disclaimer:** The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.